Greg: copy faxed to Roland

THORNTON
Construction Services

PLEASE DELIVER IMMEDIATELY TO

Contact: Greg Westphal Date: 8/21/95
Company: GSA
Fax No.: (202) 708-8420

From: Joe Gale, Contract Services, Project Manager
Pages: 5 (including this one)
Operator:

Re: West Heating Plant - Steam Tunnel project

Message: Attached report on asbestos. We will start X-ray tomorrow morning. I will be able to draw up a schedule within a week. Any questions please do not hesitate to call.

R. M. Thornton, Inc., established in 1932, is a multi-craft construction services firm with in-house capabilities in Mechanical Construction, HVAC Maintenance and Service, Fire Protection Services, Plumbing, Electrical Services, and Site Utilities. The company is committed to:

"QUALITY WITHOUT COMPROMISE"

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applied environmental inc.
11800 Sunrise Valley Drive, Suite 1200
Reston, Virginia 22091
(703) 648-0822
FAX (703) 648-0575

August 21, 1995

Mr. Lee Thomas
Vice President Asbestos Abatement
TBN Associates, Inc.
11262 Old Baltimore Pike
Beltsville, Maryland 20705

Dear Mr. Thomas:

This is to confirm the results of sampling conducted in the GSA steam tunnel originating in the West Heating Plant and continuing approximately 1075 feet from the plant. Applied Environmental, Inc., performed an inspection and sampling of suspect asbestos-containing insulation from the four pipe steam distribution system prior to renovation activities within the tunnel. The following pipes are contained in the tunnel: two 20-inch high pressure steam lines; one 10-inch low pressure condensate line; and one 3-inch high pressure condensate line.

Representative bulk samples were collected of suspect insulating materials which had the same physical appearance and characteristics (i.e., homogeneous). These included samples of pipe insulation, tar paper over pipe insulation, and block insulation. The sample analyses were performed using polarized light microscopy (PLM) and dispersion staining methods described in the U.S. Environmental Protection Agency's (EPA) Interim Method for the Determination of Asbestos in Bulk Insulation Samples. Quantitation of the bulk asbestos samples are an analytical estimation of percent composition. Applied Environmental is accredited by the U.S. Department of Commerce, National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos identification by PLM. A copy of the laboratory results is attached for your reference.

Visual inspection of the two 20-inch steam lines identified them to be insulated with fiberglass insulation and no suspect asbestos-containing insulation. The 10-inch low pressure condensate return line was insulated with a mineral (rock) wool blanket that was covered by tar paper. Under the mineral wool insulation is a hardened scale on the pipe surface, which is several layers thick. The 3-inch high pressure condensate return line was insulated with fiberglass insulation, however there was a white pre-formed block

insulation present under each pipe hanger. The insulation is covered by a metal jacket which covers most of the pipe insulation surface.

The laboratory reported that one sample of pipe insulation collected on the 10" low pressure condensate line at the 010 foot level contained 1 to 5% amosite asbestos. All other samples collected were reported at "no asbestos fibers detected."

The asbestos containing material is a non-friable, hardened scale/insulation located below a layer of mineral wool, with isolated areas of exposed scale present along the 1075 feet of pipe that were inspected. The scale/insulation is a thin gray layer of material that may be present due to incomplete removal of asbestos insulation that has been incorporated into the degradation of the exterior surface of the pipe. The scale/insulation material is securely attached to the pipe, and removal may result in damage to the pipe line. Because the pipe was insulated with mineral wool and tar paper, it was not able to be completely inspected. It is unknown how much of the pipe surface may be contaminated with the asbestos material.

If the 10-inch low pressure condensate pipe and the scale/insulation material will not be impacted during renovation activities occurring in the tunnel, removal of the asbestos-containing materials will not be required. In addition, if the material will not be disturbed, atmospheric air monitoring for occupational asbestos exposure of employees working within the tunnel will not be necessary. If the pipe or existing insulation will be impacted by renovation activities, all asbestos materials must be removed in accordance with federal regulations.

If you have any questions or require further information, please feel free to give me a call.

Sincerely,

(b) (6) [redacted]

James D. Dolan
Industrial Hygienist
Division Manager

Ref. No.: 004-95-0433

Attachments

applied environmental inc.

ASBESTOS BULK SAMPLING DATA

General Services Administration
Steam Tunnel
Rock Creek Parkway

August 19, 1995

TBN Associates, Inc.

95-4,878	STJD95081801	Tar paper over pipe insulation on 10" low pressure condensate line at 810 feet	No asbestos fibers detected Cellulose fibers 55-60% Fibrous glass 5-10% Non-asbestos, non-fibrous 35-30%
95-4,879	STJD95081802	Mastic over insulation on 10" low pressure condensate line at 810 feet	No asbestos fibers detected Fibrous glass 60-55% Non-asbestos, non-fibrous 40-45%
95-4,880	STJD95081803	Pipe insulation on 10" low pressure condensate line at 810 feet hard insulation on pipe	Amosite asbestos 1-5% Non-asbestos, non-fibrous 90-95%
95-4,881	STJD95081804	Pipe insulation on 10" low pressure condensate line at 810 feet, fluffy outer insulation	No asbestos fibers detected Cellulose fibers trace Fibrous glass 90-95% Non-asbestos, non-fibrous 1-5%
95-4,882	STJD95081805	Block insulation under pipe hanger on 3" high pressure condensate line at 867 feet	No asbestos fibers detected Fibrous glass 25-30% Synthetic fibers 35-40% Non-asbestos, non-fibrous 25-30%
95-4,883	STJD95081806	Tar paper over pipe insulation on 10" low pressure condensate line at 350 feet	No asbestos fibers detected Cellulose fibers 50-55% Synthetic fibers 1-5% Non-asbestos, non-fibrous 35-40%
95-4,884	STJD95081807	Block insulation under pipe hanger on 10" low pressure condensate line at 450 feet	No asbestos fibers detected Synthetic fibers 20-25% Non-asbestos, non-fibrous 70-75%
95-4,885	STJD95081808	Tar paper over pipe insulation on 10" low pressure condensate line at 1,887 feet	No asbestos fibers detected Cellulose fibers 50-55% Non-asbestos, non-fibrous 40-45%
95-4,886	STJD95081809	Tar paper over pipe insulation on 10" low pressure condensate line at 820 feet	No asbestos fibers detected Cellulose fibers 45-60% Fibrous glass 1-5% Synthetic fibers 1-5% Non-asbestos, non-fibrous 35-40%
95-4,887	STJD95081810	Pipe insulation on 10" low pressure condensate line at 433 feet	No asbestos fibers detected Cellulose fibers trace Fibrous glass 90-95% Non-asbestos, non-fibrous 1-5%
95-4,888	STJD95081811	Pipe insulation on 10" low pressure condensate line at 360 feet	No asbestos fibers detected Cellulose fibers 1-5% Fibrous glass 95-90% Non-asbestos, non-fibrous 1-5%

004-08-0433/1

applied environmental inc.
Laboratory Services Division

ASBESTOS BULK SAMPLING DATA

General Services Administration
Broom Tunnel
Rock Creek Parkway

August 19, 1995

TSM Associates, Inc.

AS-6,550	STJD95081812	Block insulation under pipe hanger on 3" high pressure condensate line at 350 feet	No asbestos fibers detected Synthetic fibers 20-25% Non-asbestos, non-fibrous 70-75%

The sample analyses were performed using Polarized Light Microscopy (PLM) and dispersion staining methods described in the U.S. Environmental Protection Agency's (EPA) Interim Method for the Determination of Asbestos in Bulk Insulation Samples. Quantitation of the bulk asbestos samples are an analytical estimation of percent composition.

Applied Environmental is accredited by the U.S. Department of Commerce, National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos identification by PLM.

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Applied Environmental Inc. is accredited by the U.S. Department of Commerce, National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos identification by Polarized Light Microscopy.

NVLAP

Jane H. Ambrose, Laboratory Services Manager 004-35-0433/2
David P. O'Konski, CIH, Laboratory Director

Laboratory Number 1811

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